

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/KR2004/000387

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7 B43K 23/008

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 B43K 23/00, B23K 23/012

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean Patents and Utility Models published since 1982

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP S52-097814 A (Itzuko Takashima) August 17, 1977 (See Figures 1-5)	1, 2, 3
X, P	KR 20-0324098 Y1 (Seung-O Bae) August 11, 2003 (See Figure 1)	1, 2, 3
Y	US 5626430 (Carl Bistrack) May 6, 1997 (Read column 5 lines 5-6 and see the figure 7a.)	15
Y	KR 20-0261344 Y1 (RFO TECHNOLOGY Co., LTD.) January 24, 2002 (See the element of the invention corresponding to the reference sign 250 of the figures 1,2, and 5)	15
A	KR 88-21639 U (Se-Yeop Lee) December 24, 1988 (See Figures 1-3)	1, 2, 3

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

08 JUNE 2004 (08.06.2004)

Date of mailing of the international search report

08 JUNE 2004 (08.06.2004)

Name and mailing address of the ISA/KR



Korean Intellectual Property Office  
920 Dunsan-dong, Seo-gu, Daejeon 302-701,  
Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

KIM, MYEONG HEE

Telephone No. 82-42-481-8150



# INTERNATIONAL SEARCH REPORT

Information on patent family members

international application No.

PCT/KR2004/000387

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP S52-097814 A	August 17, 1977	NONE	
KR 20-0324098 Y1	August 11, 2003	NONE	
US 5626430	May 6, 1997	NONE	
KR 20-0261344 Y1	January 24, 2002	WO 03/029022 A1	April 10, 2003
KR 88-21639 U	December 24, 1988	NONE	